



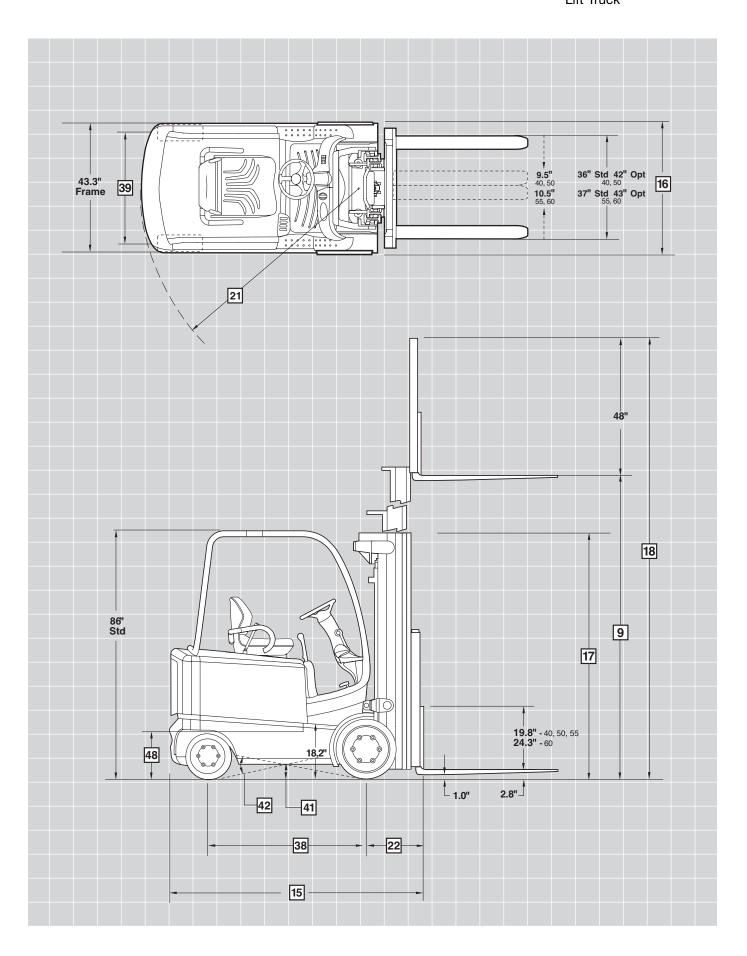
FC 4500 Series

Sit-down Rider Lift Truck

# FC 4500







_	4	Manufacturer			Crown Equipmo	at Cornoration			
General Information	1	Manufacturer Madel			Crown Equipmer FC 4510/15-40	FC 4520/25-40			
٦at	2	Model		II-					
Ĕ	3	Load Capacity*	F. I. F I. I I. 00	lb .	400				
Ĕ	4	Load Center	Fork Face to Load CG	in	24				
=	5	Power	Electric		36-Volt / 48-Volt				
ē	6	Operator Type			Sit-down Rider Counterbalanced				
ē		Tire Type	1		Cush				
0	8	Wheels (x = driven)	Number Front/Rear		2x / 2				
	9	Mast (See Mast Chart)	Lifting Height (MFH)	in	188				
			Free Lift Height	in	32.:				
	12	Fork Carriage		in	ITA Cla				
	13	Forks	Standard L x W x T	x 1.8					
			Optional Lengths	in	42, 48, 5				
s	14	Tilt	F° / B°	degree	5 /				
9			Interlocked Fork Height**	in	66				
īŠ.		Battery Compartment		in	27	33			
Dimensions	15	Headlength	Length to Fork Face	in	77.8	84			
Ë	16	Width Overall	Standard Tread	in	43				
_			Wide Tread	in	47.				
	17	Height with Load Backrest	Mast Collapsed	in	83				
	18		Mast Extended	in	236				
	21	Turning Radius		in	69.1	75.3			
	22	Load Distance	Center of Wheel to Fork Fa	ice in	15.				
	23	Aisle Width (Add Load + Clear)	Right Angle Stack	in	84.9	91.1			
	24	Speed Travel	Empty / Loaded 48V	mph	11 / 1				
e			Empty / Loaded 36V	3.3					
ä	25	Speed Lift†† DC	Empty / Loaded 48V	76					
Ē			Empty / Loaded 36V	fpm	104 / 58				
Performance		AC	Empty / Loaded 48V	fpm	110 /	92			
ڇ			Empty / Loaded 36V	fpm	104 /	71			
	26	Speed Lower	Empty / Loaded	fpm	84				
	32	Weight, Less Battery		lb	7,243	7,195			
ıts	33	Axle Load with Max Battery,	Front	lb	11,987	11,752			
Weights		Loaded	Rear	lb	1,886	2,242			
š	34	Axle Load with Max Battery,	Front	lb	4,787	4,851			
		Unloaded	Rear	lb	5,086	5,144			
	36	Tires	Size Front	in	21 x 7	x 15			
	37		Size Rear	in	16 x 6 x	( 10.5			
	38	Wheelbase		in	49.7	54.7			
s	39	Tread/Track Width	Front Standard / Rear	in	36.4 /	36			
SSi			Front Optional / Rear	in	40.5 /	36			
Chassis	40	Ground Clearance, Loaded	Lowest Point	in	3				
O	41		Center of Wheelbase	in	4.8	3			
	42	Grade Clearance, Loaded		%	38	35			
	43	Brakes	Service		Foot Hyd				
	44		Parking		Hand Electro				
	45	Battery	Туре		Lead A				
	46		Capacity - 36V	AH	1210	1430			
				kWh	42.5	50.2			
			Capacity - 48V	AH	880	1100			
Battery				kWh	41.2	51.5			
≝	47		Weight - Min	lb	2630	2800			
Ba			Weight - Max	lb	3200	4000			
			Size - Max	Length	27.25	32.94			
				Width	38.6				
				Height	22.2				
	48	Battery Floor Height	With Rollers / w/o Rollers	in	17.4 /				
	-		Tractor Motor, dia	in	11.				
ည	49	Motors							
otors	49 50	Motors							
Motors	49 50 51	Motors Operating Pressure	Lift Motor, dia For Attachments	in psi	7.2 Up to 3	)			

<sup>\*</sup> Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.

\*\* Forward tilt restricted to 2° above this height.

† With maintenance-free batteries or batteries with a lid (flat top), consult factory.

††Based on TT mast.

2 3 4 5 6 7 8 9	Manufacturer Model Load Capacity* Load Center Power	Fork Face to Load CG	lb	FC 4510/15-50	n Equipment Corpo FC 4520/25-50 5000	FC 4540/45-50			
3 4 5 6 7 8 9	Load Capacity* Load Center	Fork Food to Load CC	lb	1 0 1010/10 00		1 0 10 10/ 10 0			
4 5 6 7 8 9	Load Center	Fork Food to Load CC	10						
5 6 7 8 9		FOUR FACE TO LOSO U.G.	in		24				
6 7 8 9		Electric			36-Volt / 48-Volt				
7 8 9	Operator Type	Liouno		Sit-do	wn Rider Counterbal	lanced			
9	Tire Type			Oit do	Cushion	arioca			
9	Wheels (x = driven)	Number Front/Rear	Number Front/Rear 2x / 2						
	Mast (See Mast Chart)	Lifting Height (MFH)	in		188				
12	Wast (See Wast Offart)	Free Lift Height	in		32.2				
14	Fork Carriage	Tree Entrieignt			ITA Class II				
13	Forks	Standard L x W x T	in		36 x 4 x 1.8				
10	IORS	Optional Lengths	in	42, 48, 54, 60					
14	Tilt	F° / B°	degree		5 / 5				
'-	THE	Interlocked Fork Height**	in		66				
	Battery Compartment	Interioence Fork Fleight	in	27	33	36			
15	Headlength	Length to Fork Face	in	81.2	84	87.1			
16	Width Overall	Standard Tread	in	01.2	43.4	07.1			
١٠	Trical Official	Wide Tread	in		47.5				
17	Height with Load Backrest	Mast Collapsed	in		83				
18	giit mai Load Dackiest								
21	Turning Radius	Mast Exterioed		71 Ω		78.0			
		Center of Wheel to Fork F		71.9		70.0			
_				87.7		93.8			
				01.1		90.0			
Z4	Speed Havei								
25	Speed Lift++ D								
20	Speed Lift]								
26	Speed Lower								
		Empty / Loaded		8 000		7,454			
		Front				13,456			
						2,097			
34	Ayle I gad with May Battery					4,829			
0-	Unloaded					5,724			
36	Tires			0,104		0,724			
37	11103								
38	Wheelbase	OIZO I IOAI		10.7		54.7			
39		Front Standard / Rear		70.1		04.7			
	Troday Track Triadir								
40	Ground Clearance, Loaded								
41		Center of Wheelbase							
42	Grade Clearance. Loaded		%	38	35	35			
43	Brakes	Service	,,,						
44									
45	Battery								
46			AH	1210		1650			
						57.9			
		Capacity - 48V				1210			
						56.6			
47		Weight - Min	lb			3100			
			lb		4000	4250			
						36.38			
			Width		38.69				
			Height	22.25					
48	Battery Floor Height	With Rollers / w/o Rollers	17.4 / 17.1						
49	Motors	Tractor Motor, dia	in in		11.4				
		Lift Motor, dia	in		7.2				
50									
12222 2 2 3333334444444444444444444444444	8 21 22 23 24 25 33 34 36 37 38 39 40 41 42 56	Turning Radius Load Distance Aisle Width (Add Load + Clear) Speed Travel  Speed Lift†† Do Aisle Width (Add Load + Clear)  Speed Lift†† Do Aisle Weight, Less Battery Axle Load with Max Battery, Loaded Axle Load with Max Battery, Unloaded Tires  Wheelbase Tread/Track Width  Ground Clearance, Loaded  Grade Clearance, Loaded  Brakes  Battery  Battery	Mast Extended	Mast Extended   in   in   in   in   in   in   in   i	Mast Extended   in   71.9	Mast Extended			

<sup>\*</sup> Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.

\*\* Forward tilt restricted to 2° above this height.

† With maintenance-free batteries or batteries with a lid (flat top), consult factory.

††Based on TT mast.

	1	Manufacturer		Crown Equipment Corporation					
Information	2	Model		FC 4520/25-55 FC 4540/45-55					
<u>ra</u>			lla l						
Ē	3 4	Load Capacity*  Load Center	lb	5500 24					
<u> </u>	5	Power	Fork Face to Load CG in	36-Volt / 48-Volt					
<u>_</u>			Electric	Sit-down Rider Counterbalanced					
General	6	Operator Type							
ē	7	Tire Type	N. salas a Farat /Dans	Cushion					
0	8	Wheels (x = driven)	Number Front/Rear	2x / 2					
	9	Mast (See Mast Chart)	Lifting Height (MFH) in	188					
	4.0		Free Lift Height in	32.2					
	12	Fork Carriage	Otensia all MAT	ITA Class II					
	13	Forks	Standard L x W x T in	36 x 5 x 1.8					
	-1.1	T:11	Optional Lengths in	42, 48, 54, 60					
2	14	Tilt	F° / B° degree	5/5					
<u>.</u>		Bettern October automate	Interlocked Fork Height** in	66					
SL	4.5	Battery Compartment	in in	33 36					
Dimensions	15	Headlength	Length to Fork Face in	87.4 90.5					
۵	16	Width Overall	Standard Tread in	45.2					
	47	Height with Load Bookers	Wide Tread in	48					
	17	Height with Load Backrest	Mast Collapsed in	83					
	18	Turning Dadius	Mast Extended in	236					
	21	Turning Radius	in Contact of Wheel to Fork Fore in	78.2 80.9					
	22	Load Distance	Center of Wheel to Fork Face in	15.8					
	23	Aisle Width (Add Load + Clear)	Right Angle Stack in	94.0 96.7					
•	24	Speed Travel	Empty / Loaded 48V mph	10.8 / 9.7					
ည	0.5	0	Empty / Loaded 36V mph	8.8 / 7.8					
nar	25	Speed Lift†† DC	Empty / Loaded 48V fpm	110 / 68					
Performance			Empty / Loaded 36V fpm	104 / 47					
ert		AC	Empty / Loaded 48V fpm	110 / 81					
ъ.	06	Speed Lower	Empty / Loaded 36V fpm	104 / 62 84					
	26 32		Empty / Loaded fpm						
s		Weight, Less Battery	lb lb	8,285 8,166					
핥	33	Axle Load with Max Battery, Loaded	Front Ib	14,308 14,111					
Weights	0.4	Axle Load with Max Battery,	Rear Ib Ib	2,277 2,655 4,818 4,622					
>	34	Unloaded	Rear Ib	6,267 6,644					
	36	Tires	Size Front in	21 x 9 x 15					
	37	THES	Size Rear in	16 x 7 x 10.5					
	38	Wheelbase	in	54.7 54.7					
	39	Tread/Track Width	Front Standard / Rear in	36.2 / 36					
Chassis	0.9	110aa/ 11aok Widui	Front Optional / Rear in	39 / 36					
as	40	Ground Clearance, Loaded	Lowest Point in	3					
ပ်	41	G. Saria Giodianos, Loddea	Center of Wheelbase in	4.8					
	42	Grade Clearance, Loaded	Scritci di Wilecibase III	35 35					
	43	Brakes	Service	Foot Hydraulic					
	44		Parking	Hand Electro-hydraulic					
	45	Battery	Туре	Lead Acid					
	46	<b>,</b>	Capacity - 36V AH	1430 1650					
			kWh	50.2 57.9					
			Capacity - 48V AH	1100 1210					
≥			kWh	51.5 56.6					
Battery	47		Weight - Min Ib	2800 3100					
Ba			Weight - Max Ib	4000 4250					
_			Size - Max Length	32.94 36.38					
			Width	38.69					
			Height	22.25					
	48	Battery Floor Height	With Rollers / w/o Rollers in	17.4 / 17.1					
ပွ	49	Motors	Tractor Motor, dia in	11.4					
Motors	50		Lift Motor, dia in	7.2					
ŝ	51	Operating Pressure	For Attachments psi	Up to 3000					
	υı	operating i resourc	1 01 / (((α)) (11) (11) (11)	ορ το ουσο					

<sup>\*</sup> Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer.

\*\* Forward tilt restricted to 2° above this height.

† With maintenance-free batteries or batteries with a lid (flat top), consult factory.

††Based on TT mast.

_	1	Manufacturer		Crown Equipment Corneration					
General Information	2	Model		Crown Equipment Corporation           FC 4520/25-60         FC 4540/45-60					
nai	3	Load Capacity*	lb	6000					
orr	4	Load Capacity  Load Center	Fork Face to Load CG in	24					
μį	5	Power		36-Volt / 48-Volt					
<u>a</u>	_		Electric	Sit-down Rider Counterbalanced					
er	6	Operator Type							
ē	7	Tire Type	N. ada a Farat/Dana	Cushion					
9	8	Wheels (x = driven)	Number Front/Rear	2x / 2					
	9	Mast (See Mast Chart)	Lifting Height (MFH) in	180					
	-10		Free Lift Height in	32.2					
	12	Fork Carriage		ITA Class III					
	13	Forks	Standard L x W x T in	36 x 5 x 1.8					
			Optional Lengths in	42, 48, 54, 60					
S	14	Tilt	F° / B° degree	5/5					
o			Interlocked Fork Height** in	66					
nsi		Battery Compartment	in	33 36					
Dimensions	15	Headlength	Length to Fork Face in	87.7 90.8					
Ē	16	Width Overall	Standard Tread in	45					
_			Wide Tread in	48					
	17	Height with Load Backrest	Mast Collapsed in	83					
	18		Mast Extended in	228					
	21	Turning Radius	in	78.2 80.9					
	22	Load Distance	Center of Wheel to Fork Face in	16.1					
	23	Aisle Width (Add Load + Clear)	Right Angle Stack in	94.3 97.0					
	24	Speed Travel	Empty / Loaded 48V mph	10.8 / 9.5					
Se			Empty / Loaded 36V mph	8.8 / 7.6					
an	25	Speed Lift†† DC	Empty / Loaded 48V fpm	110 / 66					
ш			Empty / Loaded 36V fpm	104 / 43					
Performance		AC	Empty / Loaded 48V fpm	110 / 76					
P			Empty / Loaded 36V fpm	104 / 57					
	26	Speed Lower	Empty / Loaded fpm	84					
	32	Weight, Less Battery	lb	8,687 8,226					
ıts	33	Axle Load with Max Battery,	Front lb	15,364 15,078					
Weights		Loaded	Rear lb	2,124 2,248					
×	34	Axle Load with Max Battery,	Front lb	4,984 4,699					
		Unloaded	Rear lb	6,503 6,627					
	36	Tires	Size Front in	21 x 9 x 15					
	37		Size Rear in	16 x 7 x 10.5					
	38	Wheelbase	in	54.7 54.7					
<u>.s</u>	39	Tread/Track Width	Front Standard / Rear in	36.2 / 36					
Chassis			Front Optional / Rear in	39 / 36					
ha	40	Ground Clearance, Loaded	Lowest Point in	3					
O	41		Center of Wheelbase in	4.8					
	42	Grade Clearance, Loaded	%	35 35					
	43	Brakes	Service	Foot Hydraulic					
	44		Parking	Hand Electro-hydraulic					
	45	Battery	Туре	Lead Acid					
	46		Capacity - 36V AH	1430 1650					
			kWh	50.2 57.9					
			Capacity - 48V AH	1100 1210					
Battery			kWh	51.5 56.6					
ıtte	47		Weight - Min lb	2800 3100					
B			Weight - Max Ib	4000 4250					
			Size - Max Length	32.94 36.38					
			Width	38.69					
			Height	22.25					
	48	Battery Floor Height	With Rollers / w/o Rollers in	17.4 / 17.1					
rs	49	Motors	Tractor Motor, dia in	11.4					
Motors	50		Lift Motor, dia in	7.2					
		O	For Attachments psi	Up to 3000					
Ĭ	51	Operating Pressure	FOI Attachments   DSI	00 10 3000					

<sup>\*</sup> Optional masts, attachments, longer load dimensions and higher lifting heights may result in derating of the capacity. Contact local dealer. 
\*\*Forward tilt restricted to 2° above this height. 
† With maintenance-free batteries or batteries with a lid (flat top), consult factory. 
††Based on TT mast.

Mast Chart FC 4500-40/50/55 TL					тт							QUAD					
9	Lifting Height in	126	138	150	188	206	216*	231*	246*	258*	276*	291*	240*	258*	276*	294*	312*
11	Free Lift Height† in	5.6	5.6	5.6	32.2	38.2	44.2	50.2	56.2	62.2	68.2	74.2	31.8	39.8	43.8	49.8	55.8
14	Interlocked Fork Ht in	78	78	78	66	72	78	84	90	96	102	108	76	82	88	94	100
17	Mast Collapsed Ht in	83	89	95	83	89	95	101	107	113	119	125	83	89	95	101	107
18	Mast Extended Ht† in	174	186	198	236	254	264	279	294	306	324	339	288	306	324	342	360
Mas	st Chart FC 4500-60		TL								TT	•					
9	9 Lifting Height in		8	130		142	1	80	1	98	208	3*	223	*	238*		250*
11	Free Lift Height† in	5.	9	5.9	5.9		32.2		38.2		44.2		50.2		56.2		62.2
14	Interlocked Fork Ht in	78	3	78	78		6	66		72 7		78		84			96
17	Mast Collapsed Ht in	83	3	89		95	8	33	8	89	95	5	101		107		113
18	Mast Extended Ht† in	16	6	178		190	2	28	2	46	25	6	271		286		298

<sup>\*</sup> Wide tread drive tires recommended. Refer to capacity charts. †Includes load backrest.

#### Standard Features

- Crown's Access 1 2 3<sup>®</sup>
   Comprehensive
   System Control
- 2. Intrinsic stability system
  - Travel speed reduction when above mast staging
  - Forward tilt interlock above staging
  - Counterweight exceeds required standards
  - Ramp speed control
- 3. Operator entry/exit
  - 18" step height
  - Large entry/exit "window"
  - Tubular overhead guard upright for easy hand hold
  - Contoured battery seat deck
  - Rounded floorboard edges
  - Tilt steering wheel and sculpted column
  - Large, uncluttered floorboard
- 4. Operator compartment design features
  - Low cowl for fork and floor visibility
  - Wide visibility window between overhead guard and front pillars
  - Suspension seat with hip restraint and anti-cinch seat belt
  - Infinite adjustment steering wheel column
  - Fingertip applied/released parking brake with tone alert

- Urethane covered control handles with tactile feedback
- Natural position for forward/reverse selector
- Rubber floor mat/rubber covered pedals
- 5. AC traction system
- 6. Exclusive Crown power disc brake with regenerative motor plugging
- 7. Crown-manufactured lift motor
- 8. 36/48-volt system
- 9. Crown display
  - Battery discharge indicator with lift interrupt and re-key feature
  - Hour meters/travel distance/stop watch
  - Pin code access capable
  - Event code display with five (5) key navigation
  - Access 1 2 3 diagnostics
  - P1, P2, P3 Performance tunina
- 10. High visibility mast with in-line hose routing
- Waterfall design overhead guard
- 12. Lift out or side removal battery access
- Battery side retainer with interlock and fault identification
- 14. No tool lift out floorboards
- 15. 48" high load backrest
- 16. 350 amp battery connector

## FC 4500 Series

- 17. Color-coded wiring
- 18. InfoPoint® System with Quick Reference Guide
- 19. Three-spool valve
- 20. O-ring face seal hydraulic fittings
- 21. Battery disconnect handle
- 22. Lift interrupt

#### **Optional Equipment**

- 1. AC Hydraulics
- 2. Sideshifter
- 3. Freezer and corrosion conditioning
- 4. UL "EE" rating
- 5. InfoLink™ Ready System
- 6. TL and quad mast styles
- 7. Polished and tapered forks
- 8. Fork lengths
- Hydraulic valves for attachments
- 10. Quick disconnect hydraulic connectors
- 11. Attachment pressure regulator and gauge
- 12. Special forward tilt
- Brush wear and motor overtemperature indicators for DC motors
- 14. Seat armrest
- 15. Steering spinner knob
- 16. Keyless on/off switch
- 17. Work lights
- Storage tray with clipboard support
- 19. Static seat
- 20. Tilt Position Assist

### Technical Information

- 21. Shoulder restraint
- 22. Back-up, brake and tail light
- 23. Strobe lights
- 24. Audible travel alarm
- 25. Tow pin
- 26. Automatic parking brake, (seat activated)
- 27. Brake activated traction cutout
- 28. Foot operated directional control
- 29. Full battery side doors
- 30. Battery compartment rollers
- 31. Dock Performance Package
- 32. Pos/Neg accessory cable
- 33. Wide tread widths
- 34. Load backrest heights
- 35. Drive-in rack overhead guard
- 36. Non-marking smooth or lug rubber tires
- 37. Work Assist™ Accessories
  - Clip pad and hook
  - Accessory clamp
  - Terminal mounting
  - Fire extinguisher
  - Operator fan
  - Work lights
  - Mirrors
- 38. Battery spacer

#### **Driveability**

The FC 4500 benefits from Crown's design and engineering excellence. Numerous features improve operator comfort and productivity.

A low 18" step height first greets the operator. A low, streamlined battery cover helps the operator glide into the truck's seat. The overhead guard is shaped to open up the entry/exit window and its tubular design provides a comfortable hand grip location for a variety of operator heights. The compact tilt steer column and steer wheel further facilitate entry/exit. Tilt column is spring loaded to easily move up and away. Floorboard (625-sq in) is uncluttered and rubber covered to insulate the operator from vibration. Sculpted floorboard design promotes visibility to the drive tires, which can reduce product and pallet damage. Brake pedal effort is reduced. Pedal to pedal and floor to pedal relationships are refined for comfort.

Better visibility can be seen everywhere you look. A low cowl for fork and carriage visibility, a high visibility mast, a compact steer column, a sculpted floorboard and a "waterfall" overhead guard all contribute to superior visibility.

Control handles are crafted into the compartment and "fanned" for easy selection. They are urethane covered with tactile feedback for comfort and easy selection. Control actuation forces are minimal and responsive.

Finger applied/released parking brake with tone alert enhances operator entry/exit and naturally encourages its use. Battery disconnect is easy to reach and operate. Easy to actuate rocker-type switches are conveniently located to select optional work lights or fan. A large convex horn button is housed in the center of the wheel.

#### **Crown Drive System**

Crown has applied the latest generation AC drive system, enhanced with Access 1 2 3 technology. The demand for high efficiency systems that closely match customer torque requirements is met with this generation control system.

Drive motor is transversemounted high above the floor away from dirt and moisture. Heavy-duty triple reduction, all gear design operates in oil bath. Engineered for durability with reduced vibration and noise.

Crown's Access 1 2 3 technology provides optimum performance and control by offering a communication interface for both operators

and technicians, intelligent coordination of lift truck systems and simplified service with advanced diagnostics.

The Crown display is used for easy troubleshooting, access event history and set performance features. A distribution panel is conveniently located with all test points, control fuses and central wiring for easy troubleshooting.

Three modes of performance can be selected to accommodate operator experience or application requirements.

#### **Crown Power Brake System**

Service brakes are located in the wheel ends with a unique full circle power disc design. Hydraulic power is utilized to actuate a full circle rotor. This design reduces operator pedal effort and improves brake response. Brake service life is increased due to a large full circle friction pad. Access to the friction pads for inspection or replacement is direct and easy. reducing downtime for brake maintenance. Parking brake is activated by a push button located on the cowl to the right of the steer wheel column. Tone alert reminder is standard. Parking brake is located on the end of the motor shaft to take advantage of gear reduction. Optional seat activated automatic parking brake is available.

#### Steering

Fully hydrostatic system with equal area, double-acting cylinder provides equally responsive steering rate both ways (4.8 turns lock to lock). Rugged axle frame; forged spindle and connecting links eliminate the need for adjustment. One-piece forged spindle and kingpin in tapered roller bearings for improved life and serviceability. Spherical bearings with tapered pins in connecting links eliminate any play in linkage. All bearing locations are sealed to exclude contaminants and are equipped

with lubrication fittings for ease of service. Axle articulates in rubber isolation bushing to improve truck handling and ride.

#### Crown Manufactured Mast Assembly

Large, rugged mast trunnion mount on drive axle and extra heavy tilt cylinders with self-aligning bushings secure mast.

High visibility mast features nested-rail design with lift cylinders positioned behind the rails. Heavy-duty mast is engineered to provide smooth reliable operation. Large hydraulic hose reeves and hose placement are engineered to reduce hose wear and increase hose life. Hose routing places hoses in-line versus side-by-side to reduce visual interference. Large lift chains are used for long reliable service life. Large diameter lift cylinders provide smooth operation.

Class II and III fork carriages are available. Optional TL and quad mast is available.

#### **Hydraulics**

Premium hydraulic function control valve provides precise metering of lift, tilt and accessory functions. Compensating section in the valve provides repeatable function speed regardless of load condition. Hydraulic lever actuation is minimal, reducing stress. Compensating section also improves overall system efficiency.

Tilt compensator prevents tilt from lunging or speeding up when doing simultaneous functions.

Crown lift/tilt interlock system provides extended forward tilt at low fork heights, reduced forward tilt at elevated heights to improve truck stability when forks are elevated.

The control valves' modular design allows easy addition of accessory functions. Maximum lowering speed is limited by pressure compensating flow control valve and velocity fuses.

Integrated hydraulic cylinder cushions soften mast staging. All lift cylinder rams are plated and retract into the hydraulic oil for additional corrosion protection when forks are lowered.

The steel oil reservoir is integral to the frame which helps to dissipate hydraulic oil heat. This clean, leak-free design includes suction strainer with separate, easily accessible fill port and dipstick with filtered breathers. Oil is returned through a replaceable spin-on type oil filter.

#### **Batteries**

Battery deck lid releases easily to expose battery for lift out or side battery removal. Optional battery rollers for use with mechanized extraction equipment. A low battery side retainer is standard. Full battery side doors are optional.

#### **Other Options**

- 1. Audible travel alarm
- 2. Flashing lights

Safety considerations and dangers associated with audible travel alarms and flashing lights include:

- Multiple alarms and/or lights can cause confusion.
- Workers ignore the alarms and/or lights after day-in and day-out exposure.
- Operator may transfer the responsibility for "looking out" to the pedestrians.
- Annoys operators and pedestrians.

#### **Other Options Available**

Contact your local Crown dealer.

Dimensions and performance data given may vary due to manufacturing tolerances. Performance is based on an average size vehicle and is affected by weight, condition of truck, how it is equipped and the conditions of the operating area. Crown products and specifications are subject to change without notice.



You can count on Crown to build lift trucks designed for safe operation, but that's only part of the safety equation. Crown encourages safe operating practices through ongoing operator training, safety-focused supervision, maintenance and a safe working environment. Go to crown.com and view our safety section to learn more.

#### **Crown Equipment Corporation**

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crown.com

Because Crown is continually improving its products, specifications are subject to change without notice.

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